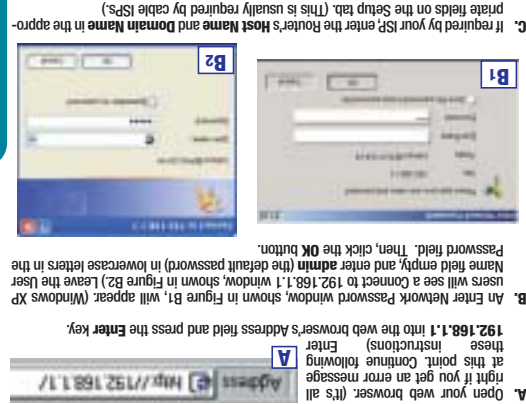


Step 3: Configure the Router



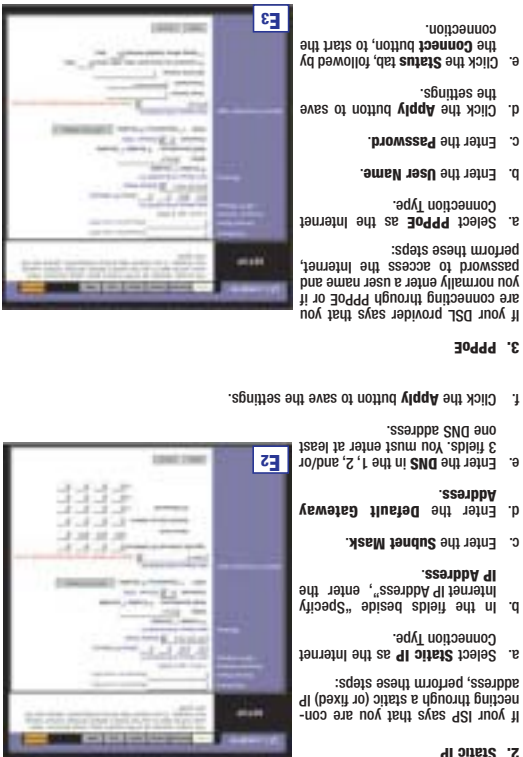
The instructions from your ISP tell you how to set up your PC for Internet access. Since you are now using the Router to share Internet access among several computers, you will use this setup information for Router configuration.

In Step 3, you will configure the Router to function in your network and gain access to the Internet through your Internet Service Provider (ISP). Your ISP may require the use of a Host Name and Domain Name. Further, you will set the Internet Configuration Type on the Router's Setup tab from the information given by your ISP. *You will need this setup information from your ISP.* If you do not have this information, please contact your ISP before proceeding to find out what questions you should ask your ISP; refer to question #1 in the Help section.



- A.** Open your web browser. (It's all right if you get an error message at this point. Continue following these instructions) Enter **192.168.1.1** into the web browser's Address field and press the **Enter** key.
- B.** An Enter Network Password window, shown in Figure B1, will appear. (Windows XP users will see a Connect to 192.168.1.1 window, shown in Figure B2.) Leave the User Name field empty, and enter **admin** (the default password) in lowercase letters in the Password field. Then, click the **OK** button.
- C.** If required by your ISP, enter the Router's **Host Name and Domain Name** in the appropriate fields on the Setup tab. (This is usually required by cable ISPs.)
- D.** Setup tab's Wireless fields (shown in Figure D) are completed as follows:
- Enable/Disable:** Selecting the wireless radio button will enable the Router's wireless feature. Wireless functions will not be available unless enabled.
 - SSID:** The SSID (or ESSID) is a unique name for your wireless network. It is case sensitive and must not exceed 32 characters. The default SSID is "linksys" but you should change this to a personal Wireless network name. All wireless points in your network must use the same SSID.
 - Channel:** Select the appropriate channel for your network from the list provided. All wireless points in your network must use the same channel in order to function properly.
- E.** The Router supports five connection types: DHCP (obtain an IP automatically), PPPoE, Static IP Address, RAS, and PPTP. These types are selected from the pull-down menu beside **Internet Connection Type**. The Setup screen and available instructions for which are included here:
- 1. Obtain an IP Automatically**
 - If your ISP says that you are connecting through a dynamic IP address (or DHCP), perform these steps:
 - a. Select **Obtain an IP automatically** as the Internet Connection Type (as previously shown in Figure D).
 - b. Click the **Apply** button to save the settings.
 - 2. Static IP**
 - If your ISP says that you are connecting through a static (or fixed) IP address, perform these steps:
 - a. Select **Static IP** as the Internet Connection Type.
 - b. In the fields beside "Specify Internet IP Address", enter the **IP Address**.
 - c. Enter the **Subnet Mask**.
 - d. Enter the **Default Gateway Address**.
 - e. Enter the **DNS** in the 1, 2, and/or 3 fields. You must enter at least one DNS address.
 - f. Click the **Apply** button to save the settings.
 - 3. PPPoE**
 - If your DSL provider says that you are connecting through PPPoE or if you normally enter a user name and password to access the Internet, perform these steps:
 - a. Select **PPPoE** as the Internet Connection Type.
 - b. Enter the **User Name**.
 - c. Enter the **Password**.
 - d. Click the **Apply** button to save the settings.
 - e. Click the **Status** tab, followed by the **Connect** button, to start the connection.

Configure Router



- 2. Static IP**
- If your ISP says that you are connecting through a static (or fixed) IP address, perform these steps:
 - a. Select **Static IP** as the Internet Connection Type.
 - b. In the fields beside "Specify Internet IP Address", enter the **IP Address**.
 - c. Enter the **Subnet Mask**.
 - d. Enter the **Default Gateway Address**.
 - e. Enter the **DNS** in the 1, 2, and/or 3 fields. You must enter at least one DNS address.
 - f. Click the **Apply** button to save the settings.

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- 4. RAS**
- RAS is a service used in Singapore only. If you are using an ISP for the necessary setup information, check with your ISP for the necessary setup information.

- 5. PPTP**
- PPTP is a service used in Europe only. If you are using a PPTP connection, check with your ISP for the necessary setup information.

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- F.** If you haven't already done so, click the **Apply** button to save the settings.

- D.** Check **Never Dial Up a Connection**.
- E.** Click the **Apply** button.
- F.** Click the **OK** button.

6. I get no signal strength or link quality or signal strength, what can I do?

- A.** Verify that the Router's Wireless-B LED is illuminated.
- B.** Verify that all of your wireless PCs are using "Infrastructure" mode.

7. How can I improve the Router's range?

- A.** Verify that the Router is as high off of the ground as possible.
- B.** Verify that there are no large sources of electrical interference nearby. (For example: speakers breaker boxes, florescent lights, microwaves, etc.)
- C.** Change the wireless channel being used. To do this:

- Open your web browser and type **http://192.168.1.1** into the "Address" field.
- In the "Enter Network Password" box, leave the "User Name" field blank and type **admin** as the password. Then, click **OK**.
- From the Setup tab, change the channel to **1**.
- Click the **Apply** button to save the settings.
- Continue doing this until you find the channel that provides the best range.

8. I tried the suggestions above and still cannot get access to the Internet from my Router. What can I do?

You can refer to the Troubleshooting appendix of the User Guide on the Setup Wizard CD-ROM, or you can get additional assistance through one of the resources listed below.

Technical Support Email Support Website	800-326-7114 (toll free from U.S. or Canada) support@linksys.com http://www.linksys.com or http://support.linksys.com
FTP Site Sales Information	ftp://ftp.linksys.com 800-546-5797 (800-LINKSYS)

BEFW11S44-PS-30225A-BW

Help

Help



The Help section contains the most frequently asked Internet connection questions. If you have additional setup needs or you wish to get information on the Advanced Features, please visit kb.linksys.com or see the User Guide, which contains a Troubleshooting appendix (available on the Setup Wizard CD-ROM).

1. I'm not sure what information I need from my Internet Service Provider (ISP) to get my network up and running. What questions should I ask?

What type of connection do I have: dynamic IP address, static IP address, or PPPoE?

- If I am using a dynamic IP address, I should ask:
 - What is my Host Name (if needed)?
 - What is my Domain Name (if needed)?

- If I am using a static IP address, I should ask:
 - What is my IP Address?
 - What is my Gateway?
 - What is my DNS?

- If I am using PPPoE (typically used by DSL ISPs), I should ask:
 - What is my User Name?
 - What is my Password?

After you obtain the information, follow the instructions in the Fast Start - Step 3: Configure the Router, and use this information to enter on the Setup tab. In the Internet Connection Type section, refer to the chart on the next page:

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If you have this type of connection:	Perform these steps:
Dynamic IP Address (DHCP)	1. Select Obtain an IP automatically as the Internet Connection Type. 2. Click the Apply button to save the setting.
Static IP Address	1. Select Static IP as the Internet Connection Type. 2. Enter the IP Address . 3. Enter the Subnet Mask . 4. Enter the Gateway Address . 5. Enter the DNS in the 1, 2, and/or 3 fields. You need to enter at least one DNS address. 6. Click the Apply button to save the settings.
PPPoE	1. Select PPPoE as the Internet Connection Type. 2. Enter the User Name . 3. Enter the Password . 4. Click the Apply button to save the settings.
RAS or PPTP	If you are using RAS (Singapore SingTel) or PPTP (service in Europe), check with your ISP for the necessary setup information.

2. I'm having problems connecting to the Internet, what LEDs should be lit on the front of the Router?

- Each Router's LED will light up for any proper connection made on the back of the Router—whether it is an Ethernet cable or power cord.

For example, the following are typical LEDs that light up once a computer and a cable or DSL modem are connected:



- When the Router is turned on (the power adapter is plugged into the Router), the **Power** LED lights up.
- When an Ethernet cable is properly connected between a PC and Port 1, 2, 3, or 4 of the Router, the LED in the corresponding Column lights up.
- A cable or DSL modem connection causes the **Internet** LED to light up.
- A wireless connection causes the **Wireless-B** LED to light up.

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- **My Internet LED isn't lit. What should I check?**
 - Check that the cable you are using between your cable or DSL modem and the Router is the same cable that came with your modem. Depending on the type of connection your modem uses, you may need either a "straight-through" or "crossover" Ethernet cable (the "straight-through" type is more common).

- Some of the lights on the front of the Router don't light up when I plug in a PC.
 - Only the **Ethernet** LED is required for a connection to work correctly.

3. I cannot get onto the Internet, nor can I access the Router's Setup page. What should I check?

- A.** First check that the cable or DSL modem and computers are properly connected to the Router. See Question #2 for how to verify that the connections are good.

- B.** Then, check that you have properly configured your PCs to communicate with the Router. Below you will find instructions for the various versions of Windows.

- **Windows 95, 98, or ME**
 - Click the **Start** menu, and then click **Run**. After the Run window appears, enter **winipcfg** in the Open field, and then click the **OK** button.
 - When the IP Configuration window appears, click the **gray box** with a black arrow pointing down.
 - A list of adapters will appear. Select the **adapter** that you use to connect to the Internet. These items should not contain "PPP", "VPN", "AOL", or "Dial-Up adapter" as part of the entry.
 - The IP Address field should show an IP address of 192.168.1.100 or 192.168.1.xxx, with "xxx" being any number greater than 100. If your IP address is not in that range, hold the reset button on the front of the Router for more than 30 seconds. This will cause your Router to be set to factory default, so you will need to re-configure the Router's Setup page. After re-configuring the Setup page, restart the computer.

- **Windows NT, 2000, and XP**
 - Click the **Start** menu, and then click **Run**. After the Run window appears, enter **cmd** in the Open field, and then click the **OK** button.
 - This will open a command prompt. Enter **ipconfig /all** and then press the **Enter** key.

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- The IP Address field should show an IP address of 192.168.1.100 or 192.168.1.xxx, with "xxx" being any number greater than 100. If your IP address is not in that range, hold the reset button on the front of the Router for more than 30 seconds. This will cause your Router to be set to factory default, so you will need to re-configure the Router's Setup page. After re-configuring the Setup page, restart the computer.

- C.** Now you will configure some settings in Windows.

- Go to your desktop and double-click **My Computer**, and then double-click **Control Panel** (Windows XP users using the default interface, click **Start**, and then select **Control Panel**).
- When the Control Panel window pops up, double-click the **Internet Options** icon (Windows XP users using the default interface, click **Network and Internet Connections**, and then click **Internet Options**).
- When the Internet Options window appears, click the **Connections** tab.
- Check **Never Dial Up a Connection**. (If this choice is grayed out, that is fine.)
- Click the **LAN Settings ...** button in the lower right-hand corner.
- When the Local Area Network (LAN) Settings window appears, **uncheck all boxes**.
- Click the **OK** button and the **Apply** button (the **Apply** button will be grayed out if you did not have to make any changes). Then click the **OK** button again.
- Exit the Control Panel, and restart your computer.

4. When I click on the icon to access the Internet, and enter the user name and password that my ISP gave me, I cannot connect to the Internet. What is wrong?

This means that you're using the software given to you by your ISP. Please use Internet Explorer or Netscape Navigator, which is located on your desktop (located on the Start Menu in Windows XP).

5. When I use Internet Explorer, a box pops up prompting me to dial up a connection. How can I disable that?

- A.** Go to your desktop and double-click **My Computer**, and then double-click **Control Panel** (Windows XP users using the default interface, click **Start**, and then select **Control Panel**).
- B.** When the Control Panel window pops up, double-click the **Internet Options** icon (Windows XP users using the default interface, click **Network and Internet Connections**, and then click **Internet Options**).
- C.** When the Internet Options window appears, click the **Connections** tab.

Help

Configure Router

More advanced functions and additional details are available in the User Guide on the Setup Wizard CD-ROM or at the Linksys website, www.linksys.com.

If you are unable to reach our website, you may want to review what you did in this section or refer to the Help section in this Fast Start guide.

Congratulations! You've successfully configured the Router. You can test the setup by opening your web browser from any computer and entering <http://www.befw11s44.com/configuration>.

Note: You only need to configure the Router from one computer. If you need advanced setting information, please refer to the Linksys support website at support.linksys.com or the User Guide on the Setup Wizard CD-ROM.

- 6.** Reset the power on your cable or DSL modem and restart your computers. They will now obtain the Router's new settings.